

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/09003

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A41D27/28 A41D3/04 A44B19/34		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A41D A41H A44B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) PAJ, EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 03, 30 March 2000 (2000-03-30) -& JP 11 346810 A (FUJISAWA MITSUO), 21 December 1999 (1999-12-21)	1,2,4, 12-14, 16,17, 34,38, 42-44,46
Y	abstract; figures 1,4	2
X	US 5 586 369 A (MATSUDA YOSHIO ET AL) 24 December 1996 (1996-12-24)	38,40
Y	the whole document	1-6, 8-14, 16-19, 21-26, 29,30, 32-34, 37,38, 40,42-46
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 21 November 2003		Date of mailing of the international search report 02/12/2003
Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Uhlig, R

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/09003

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 263 510 B1 (BAY MARC A ET AL) 24 July 2001 (2001-07-24) cited in the application column 3, line 3 - line 17; figure 4 ---	1,3-6, 8-10, 12-14, 16-19, 21-23, 34,37, 38,40, 42-44,46
X	US 4 019 227 A (EBATA HIROYUKI) 26 April 1977 (1977-04-26) claims; figures ---	38-41
X	US 2 718 047 A (GEORGE WALDES) 20 September 1955 (1955-09-20) the whole document ---	38-41
Y	US 5 159 719 A (AUMANN HANS) 3 November 1992 (1992-11-03) cited in the application column 1, line 8; claims; figure 2 ---	4-6, 8-14, 16-19, 21-26, 29,30, 32,33, 42-45
Y	DE 44 41 732 A (TSUNEFUJI & CO LTD) 1 June 1995 (1995-06-01) column 13, line 37 - line 42 ---	37
P,X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 064516 A (MORITO CO LTD;NEW KNIT:KK), 5 March 2003 (2003-03-05) abstract -----	1-6, 12-14, 17,34, 38,40, 42,43,46

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 11346810	A	21-12-1999	NONE	
US 5586369	A	24-12-1996	JP 8066208 A CN 1125547 A DE 19531950 A1 IT T0950703 A1 KR 9709873 B1	12-03-1996 03-07-1996 07-03-1996 29-02-1996 19-06-1997
US 6263510	B1	24-07-2001	NONE	
US 4019227	A	26-04-1977	JP 1143351 C JP 52006253 A JP 57035001 B AR 207417 A1 AU 500188 B2 AU 1514176 A BR 7604019 A CA 1061087 A1 DE 2629409 A1 DK 283076 A ,B, ES 222011 Y FI 761763 A ,B, FR 2315879 A1 GB 1516905 A HK 11380 A IT 219848 Z2 MY 25780 A NL 7607166 A ,B, NO 762060 A ,B, PH 11904 A SE 408127 B SE 7607408 A	13-04-1983 18-01-1977 27-07-1982 30-09-1976 10-05-1979 05-01-1978 22-03-1977 28-08-1979 27-01-1977 31-12-1976 01-03-1977 31-12-1976 28-01-1977 05-07-1978 21-03-1980 18-05-1993 31-12-1980 03-01-1977 03-01-1977 08-09-1978 21-05-1979 31-12-1976
US 2718047	A	20-09-1955	US 2607715 A	19-08-1952
US 5159719	A	03-11-1992	DE 3921010 C1 AT 99890 T DE 59004191 D1 EP 0405062 A1 JP 3130401 A	21-06-1990 15-01-1994 24-02-1994 02-01-1991 04-06-1991
DE 4441732	A	01-06-1995	JP 3461882 B2 JP 7150490 A DE 4441732 A1 FR 2712992 A1 GB 2284217 A ,B US 5804275 A	27-10-2003 13-06-1995 01-06-1995 02-06-1995 31-05-1995 08-09-1998
JP 2003064516	A	05-03-2003	NONE	